

# SEQUENCE LISTING

<110> Hirata, Yuichi  
Nezu, Junichi

<120> Novel VEGF-like Factor

<130> 50026/014001

<140> 09/214,982

<141> 1999-01-14

<150> 8-185216 Japan

<151> 1996-07-15

<160> 34

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 354

<212> PRT

<213> Homo sapiens

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Ser	Gln	Ser	Thr	Leu	Glu	Arg	Ser	Glu	Gln	Gln	Ile	Arg	Ala	Ala	Ser
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Glu	Thr	Leu	Lys	Val	Ile	Asp	Glu	Glu	Trp	Gln	Arg	Thr	Gln	Cys	Ser
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Pro	Arg	Glu	Thr	Cys	Val	Glu	Val	Ala	Ser	Glu	Leu	Gly	Lys	Ser	Thr
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Asn	Thr	Phe	Phe	Lys	Pro	Pro	Cys	Val	Asn	Val	Phe	Arg	Cys	Gly	Gly
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Cys	Cys	Asn	Glu	Glu	Ser	Leu	Ile	Cys	Met	Asn	Thr	Ser	Thr	Ser	Tyr
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Ile	Ser	Lys	Gln	Leu	Phe	Glu	Ile	Ser	Val	Pro	Leu	Thr	Ser	Val	Pro
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Glu	Leu	Val	Pro	Val	Lys	Val	Ala	Asn	His	Thr	Gly	Cys	Lys	Cys	Leu
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Pro Thr Ala Pro Arg His Pro Tyr Ser Ile Ile Arg Arg Ser Ile Gln  
 195 200 205  
 Ile Pro Glu Glu Asp Arg Cys Ser His Ser Lys Lys Leu Cys Pro Ile  
 210 215 220  
 Asp Met Leu Trp Asp Ser Asn Lys Cys Lys Cys Val Leu Gln Glu Glu  
 225 230 235 240  
 Asn Pro Leu Ala Gly Thr Glu Asp His Ser His Leu Gln Glu Pro Ala  
 245 250 255  
 Leu Cys Gly Pro His Met Met Phe Asp Glu Asp Arg Cys Glu Cys Val  
 260 265 270  
 Cys Lys Thr Pro Cys Pro Lys Asp Leu Ile Gln His Pro Lys Asn Cys  
 275 280 285  
 Ser Cys Phe Glu Cys Lys Glu Ser Leu Glu Thr Cys Cys Gln Lys His  
 290 295 300  
 Lys Leu Phe His Pro Asp Thr Cys Ser Cys Glu Asp Arg Cys Pro Phe  
 305 310 315 320  
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 atgtcaactg cttagtaatc agtggatatt gaaatattca aa atg tac aga gag 414  
 Met Tyr Arg Glu  
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tgg gta gtg gtg aat gtt ttc atg atg ttg tac gtc cag ctg gtg cag 462  
 Trp Val Val Val Asn Val Phe Met Met Leu Tyr Val Gln Leu Val Gln  
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 Gly Ser Ser Asn Glu His Gly Pro Val Lys Arg Ser Ser Gln Ser Thr  
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ttg gaa cga tct gaa cag cag atc agg gct gct tct agt ttg gag gaa	558
Leu Glu Arg Ser Glu Gln Gln Ile Arg Ala Ala Ser Ser Leu Glu Glu	
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cta ctt cga att act cac tct gag gac tgg aag ctg tgg aga tgc agg	606
Leu Leu Arg Ile Thr His Ser Glu Asp Trp Lys Leu Trp Arg Cys Arg	
55 60 65	
ctg agg ctc aaa agt ttt acc agt atg gac tct cgc tca gca tcc cat	654
Leu Arg Leu Lys Ser Phe Thr Ser Met Asp Ser Arg Ser Ala Ser His	
70 75 80	
cgg tcc act agg ttt gcg gca act ttc tat gac att gaa aca cta aaa	702
Arg Ser Thr Arg Phe Ala Ala Thr Phe Tyr Asp Ile Glu Thr Leu Lys	
85 90 95 100	
gtt ata gat gaa gaa tgg caa aga act cag tgc agc cct aga gaa acg	750
Val Ile Asp Glu Glu Trp Gln Arg Thr Gln Cys Ser Pro Arg Glu Thr	
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Cys Val Glu Val Ala Ser Glu Leu Gly Lys Ser Thr Asn Thr Phe Phe	
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aag ccc cct tgt gtg aac gtg ttc cga tgt ggt ggc tgt tgc aat gaa	846
Lys Pro Pro Cys Val Asn Val Phe Arg Cys Gly Gly Cys Cys Asn Glu	
135 140 145	
gag agc ctt atc tgt atg aac acc agc acc tcg tac att tcc aaa cag	894
Glu Ser Leu Ile Cys Met Asn Thr Ser Thr Ser Tyr Ile Ser Lys Gln	
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ctc ttt gag ata tca gtg cct ttg aca tca gta cct gaa tta gtg cct	942
Leu Phe Glu Ile Ser Val Pro Leu Thr Ser Val Pro Glu Leu Val Pro	
165 170 175 180	
gtt aaa gtt gcc aat cat aca ggt tgt aag tgc ttg cca aca gcc ccc	990
Val Lys Val Ala Asn His Thr Gly Cys Lys Cys Leu Pro Thr Ala Pro	
185 190 195	
cgc cat cca tac tca att atc aga aga tcc atc cag atc cct gaa gaa	1038
Arg His Pro Tyr Ser Ile Ile Arg Arg Ser Ile Gln Ile Pro Glu Glu	
200 205 210	
gat cgc tgt tcc cat tcc aag aaa ctc tgt cct att gac atg cta tgg	1086
Asp Arg Cys Ser His Ser Lys Lys Leu Cys Pro Ile Asp Met Leu Trp	
215 220 225	
gat agc aac aaa tgt aaa tgt gtt ttg cag gag gaa aat cca ctt gct	1134
Asp Ser Asn Lys Cys Lys Cys Val Leu Gln Glu Glu Asn Pro Leu Ala	
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cac atg atg ttt gac gaa gat cgt tgc gag tgt gtc tgt aaa aca cca 1230  
 His Met Met Phe Asp Glu Asp Arg Cys Glu Cys Val Cys Lys Thr Pro  
 265 270 275

tgt ccc aaa gat cta atc cag cac ccc aaa aac tgc agt tgc ttt gag 1278  
 Cys Pro Lys Asp Leu Ile Gln His Pro Lys Asn Cys Ser Cys Phe Glu  
 280 285 290

tgc aaa gaa agt ctg gag acc tgc tgc cag aag cac aag cta ttt cac 1326  
 Cys Lys Glu Ser Leu Glu Thr Cys Cys Gln Lys His Lys Leu Phe His  
 295 300 305

cca gac acc tgc agc tgt gag gac aga tgc ccc ttt cat acc aga cca 1374  
 Pro Asp Thr Cys Ser Cys Glu Asp Arg Cys Pro Phe His Thr Arg Pro  
 310 315 320

tgt gca agt ggc aaa aca gca tgt gca aag cat tgc cgc ttt cca aag 1422  
 Cys Ala Ser Gly Lys Thr Ala Cys Ala Lys His Cys Arg Phe Pro Lys  
 325 330 335 340

gag aaa agg gct gcc cag ggg ccc cac agc cga aag aat cct 1464  
 Glu Lys Arg Ala Ala Gln Gly Pro His Ser Arg Lys Asn Pro  
 345 350

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 Met Tyr Gly Glu Trp Gly  
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atg ggg aat atc ctc atg atg ttc cat gtg tac ttg gtg cag ggc ttc 161  
 Met Gly Asn Ile Leu Met Met Phe His Val Tyr Leu Val Gln Gly Phe  
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agg agc gaa cat gga cca gtg aag gat ttt tct ttt gag cga tca tcc 209  
 Arg Ser Glu His Gly Pro Val Lys Asp Phe Ser Phe Glu Arg Ser Ser  
 25 30 35

cgg tcc atg ttg gaa cga tct gaa caa cag atc cga gca gct tct agt 257  
 Arg Ser Met Leu Glu Arg Ser Glu Gln Gln Ile Arg Ala Ala Ser Ser  
 40 45 50

ttg gag gag ttg ctg caa atc gcg cac tct gag gac tgg aag ctg tgg 305  
 Leu Glu Glu Leu Leu Gln Ile Ala His Ser Glu Asp Trp Lys Leu Trp  
 55 60 65 70

cga tgc cgg ttg aag ctc aaa agt ctt gcc agt atg gac tca cgc tca 353  
 Arg Cys Arg Leu Lys Leu Lys Ser Leu Ala Ser Met Asp Ser Arg Ser  
 75 80 85

gca tcc cat cgc tcc acc aga ttt gcg gca act ttc tat gac act gaa 401  
 Ala Ser His Arg Ser Thr Arg Phe Ala Ala Thr Phe Tyr Asp Thr Glu

90 95 100

aca cta aaa gtt ata gat gaa gaa tgg cag agg acc caa tgc agc cct 449  
 Thr Leu Lys Val Ile Asp Glu Glu Trp Gln Arg Thr Gln Cys Ser Pro  
 105 110 115

aga gag aca tgc gta gaa gtc gcc agt gag ctg ggg aag aca acc aac 497  
 Arg Glu Thr Cys Val Glu Val Ala Ser Glu Leu Gly Lys Thr Thr Asn  
 120 125 130

aca ttc ttc aag ccc ccc tgt gta aat gtc ttc cgg tgt gga ggc tgc 545  
 Thr Phe Phe Lys Pro Pro Cys Val Asn Val Phe Arg Cys Gly Gly Cys  
 135 140 145 150

tgc aac gaa gag ggt gtg atg tgt atg aac aca agc acc tcc tac atc 593  
 Cys Asn Glu Glu Gly Val Met Cys Met Asn Thr Ser Thr Ser Tyr Ile  
 155 160 165

tcc aaa cag ctc ttt gag ata tca gtg cct ctg aca tca gtg ccc gag 641  
 Ser Lys Gln Leu Phe Glu Ile Ser Val Pro Leu Thr Ser Val Pro Glu  
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 185 190 195

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 Thr Gly Pro Arg His Pro Tyr Ser Ile Ile Arg Arg Ser Ile Gln Thr  
 200 205 210

cca gaa gaa gat gaa tgt cct cat tcc aag aaa ctc tgt cct att gac 785  
 Pro Glu Glu Asp Glu Cys Pro His Ser Lys Lys Leu Cys Pro Ile Asp  
 215 220 225 230

atg ctg tgg gat aac acc aaa tgt aaa tgt gtt ttg caa gac gag act 833  
 Met Leu Trp Asp Asn Thr Lys Cys Lys Cys Val Leu Gln Asp Glu Thr  
 235 240 245

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 250 255 260

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 Cys Gly Pro His Met Thr Phe Asp Glu Asp Arg Cys Glu Cys Val Cys  
 265 270 275

aaa gca cca tgt ccg gga gat ctc att cag cac ccg gaa aac tgc agt 977  
 Lys Ala Pro Cys Pro Gly Asp Leu Ile Gln His Pro Glu Asn Cys Ser  
 280 285 290

tgc ttt gag tgc aaa gaa agt ctg gag agc tgc tgc caa aag cac aag 1025

Cys Phe Glu Cys Lys Glu Ser Leu Glu Ser Cys Cys Gln Lys His Lys  
 295 300 305 310

att ttt cac cca gac acc tgc agc tgt gag gac aga tgt cct ttt cac 1073  
 Ile Phe His Pro Asp Thr Cys Ser Cys Glu Asp Arg Cys Pro Phe His  
 315 320 325

acc aga aca tgt gca agt aga aag cca gcc tgt gga aag cac tgg cgc 1121  
 Thr Arg Thr Cys Ala Ser Arg Lys Pro Ala Cys Gly Lys His Trp Arg  
 330 335 340

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 345 350 355

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 gccatcagtg gacatttgaa atattcaaa atg tat gga gag tgg gcc gca gtg 293  
 Met Tyr Gly Glu Trp Ala Ala Val  
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aat att ctc atg atg tcc tat gtg tac ctg gtg cag ggc ttc agt att 341  
 Asn Ile Leu Met Met Ser Tyr Val Tyr Leu Val Gln Gly Phe Ser Ile  
 10 15 20

gaa cac cga gca gtg aag gat gtt tct ctt gag cga tca tcc cgg tct 389  
 Glu His Arg Ala Val Lys Asp Val Ser Leu Glu Arg Ser Ser Arg Ser  
 25 30 35 40

gtg ttg gaa cgt tct gaa caa cag atc cgc gcg gct tct act ttg gaa 437  
 Val Leu Glu Arg Ser Glu Gln Gln Ile Arg Ala Ala Ser Thr Leu Glu

45                      50                      55

gag ttg ctg caa gtc gca cac tct	gag gac tgg aag ctg tgg cgg tgc	485
Glu Leu Leu Gln Val Ala His Ser	Glu Asp Trp Lys Leu Trp Arg Cys	
60	65	70
cgg ttg aag ctt aaa agt ctt gcc aat gtg gac tcg cgc tca aca tcc	533	
Arg Leu Lys Leu Lys Ser Leu Ala Asn Val Asp Ser Arg Ser Thr Ser		
75	80	85
cat cgc tcc acc aga ttt gcg gca act ttc tat gat act gaa aca cta	581	
His Arg Ser Thr Arg Phe Ala Ala Thr Phe Tyr Asp Thr Glu Thr Leu		
90	95	100
aaa gtt ata gat gaa gaa tgg cag agg acc caa tgc agc cct aga gag	629	
Lys Val Ile Asp Glu Glu Trp Gln Arg Thr Gln Cys Ser Pro Arg Glu		
105	110	115
aca tgc gta gaa gtc gcc agt gag ctg ggg aag aca acc aac aca ttt	677	
Thr Cys Val Glu Val Ala Ser Glu Leu Gly Lys Thr Thr Asn Thr Phe		
125	130	135
ttc aag ccc cct tgt gta aat gtc ttc cgg tgt gga gga tgc tgc aat	725	
Phe Lys Pro Pro Cys Val Asn Val Phe Arg Cys Gly Gly Cys Cys Asn		
140	145	150
gaa gag agc gtg atg tgt atg aac aca agc acc tcc tac atc tcc aaa	773	
Glu Glu Ser Val Met Cys Met Asn Thr Ser Thr Ser Tyr Ile Ser Lys		
155	160	165
cag ctc ttt gag ata tca gtg cct ctg aca tca gtg ccc gag tta gtg	821	
Gln Leu Phe Glu Ile Ser Val Pro Leu Thr Ser Val Pro Glu Leu Val		
170	175	180
cct gtt aaa att gcc aac cat acg ggt tgt aag tgt ttg ccc acg ggc	869	
Pro Val Lys Ile Ala Asn His Thr Gly Cys Lys Cys Leu Pro Thr Gly		
185	190	195
ccc cgg cat cct tat tca att atc aga aga tcc att cag atc cca gaa	917	
Pro Arg His Pro Tyr Ser Ile Ile Arg Arg Ser Ile Gln Ile Pro Glu		
205	210	215
gaa gat caa tgt cct cat tcc aag aaa ctc tgt cct gtt gac atg ctg	965	
Glu Asp Gln Cys Pro His Ser Lys Lys Leu Cys Pro Val Asp Met Leu		
220	225	230
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Trp Asp Asn Thr Lys Cys Lys Cys Val Leu Gln Asp Glu Asn Pro Leu		
235	240	245
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Pro His Met Met Phe Asp Glu Asp Arg Cys Glu Cys Val Cys Lys Ala	
265 270 275 280	
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Pro Cys Pro Gly Asp Leu Ile Gln His Pro Glu Asn Cys Ser Cys Phe	
285 290 295	
gaa tgc aaa gaa agt ctg gaa agc tgt tgc caa aag cac aag atg ttt	1205
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His Pro Asp Thr Cys Arg Ser Met Val Phe Ser Leu Ser Pro	
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ggaagtatta tagagtgatg attaaattgt cttcttggtt caaacagggg ctcatgatta	1427
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 Asp Arg Cys Glu Cys Val Cys Lys Thr Pro Cys Pro Lys Asp Leu Ile  
 20 25 30  
 Gln His Pro Lys Asn Cys Ser Cys Phe Glu Cys Lys Glu Ser Leu Glu  
 35 40 45  
 Thr Cys Cys Gln Lys His Lys Leu Phe His Pro Asp Thr Cys Ser Cys  
 50 55 60  
 Glu Asp Arg Cys Pro Phe His Thr Arg Pro Cys Ala Ser Gly Lys Thr  
 65 70 75 80  
 Ala Cys Ala Lys His Cys Arg Phe Pro Lys Glu Lys Arg Ala Ala Gln  
 85 90 95  
 Gly Pro His Ser Arg Lys Asn Pro  
 100

<210> 29  
 <211> 419  
 <212> PRT  
 <213> Homo sapiens

*Q1 cont.*  
 <400> 29  
 Met His Leu Leu Gly Phe Phe Ser Val Ala Cys Ser Leu Leu Ala Ala  
 1 5 10 15  
 Ala Leu Leu Pro Gly Pro Arg Glu Ala Pro Ala Ala Ala Ala Phe  
 20 25 30  
 Glu Ser Gly Leu Asp Leu Ser Asp Ala Glu Pro Asp Ala Gly Glu Ala  
 35 40 45  
 Thr Ala Tyr Ala Ser Lys Asp Leu Glu Phe Gln Leu Arg Ser Val Ser  
 50 55 60  
 Ser Val Asp Glu Leu Met Thr Val Leu Tyr Pro Glu Tyr Trp Lys Met  
 65 70 75 80  
 Tyr Lys Cys Gln Leu Arg Lys Gly Gly Trp Gln His Asn Arg Glu Gln  
 85 90 95  
 Ala Asn Leu Asn Ser Arg Thr Glu Glu Thr Ile Lys Phe Ala Ala Ala  
 100 105 110  
 His Tyr Asn Thr Glu Ile Leu Lys Ser Ile Asp Asn Glu Trp Arg Lys  
 115 120 125  
 Thr Gln Cys Met Pro Arg Glu Val Cys Ile Asp Val Gly Lys Glu Phe  
 130 135 140  
 Gly Val Ala Thr Asn Thr Phe Phe Lys Pro Pro Cys Val Ser Val Tyr  
 145 150 155 160  
 Arg Cys Gly Gly Cys Asn Ser Glu Gly Leu Gln Cys Met Asn Thr  
 165 170 175  
 Ser Thr Ser Tyr Leu Ser Lys Thr Leu Phe Glu Ile Thr Val Pro Leu  
 180 185 190  
 Ser Gln Gly Pro Lys Pro Val Thr Ile Ser Phe Ala Asn His Thr Ser  
 195 200 205  
 Cys Arg Cys Met Ser Lys Leu Asp Val Tyr Arg Gln Val His Ser Ile  
 210 215 220  
 Ile Arg Arg Ser Leu Pro Ala Thr Leu Pro Gln Cys Gln Ala Ala Asn

225                      230                      235                      240  
 Lys Thr Cys Pro Thr Asn Tyr Met Trp Asn Asn His Ile Cys Arg Cys  
                                  245                      250                      255  
 Leu Ala Gln Glu Asp Phe Met Phe Ser Ser Asp Ala Gly Asp Asp Ser  
                                  260                      265                      270  
 Thr Asp Gly Phe His Asp Ile Cys Gly Pro Asn Lys Glu Leu Asp Glu  
                                  275                      280                      285  
 Glu Thr Cys Gln Cys Val Cys Arg Ala Gly Leu Arg Pro Ala Ser Cys  
                                  290                      295                      300  
 Gly Pro His Lys Glu Leu Asp Arg Asn Ser Cys Gln Cys Val Cys Lys  
 305                      310                      315                      320  
 Asn Lys Leu Phe Pro Ser Gln Cys Gly Ala Asn Arg Glu Phe Asp Glu  
                                  325                      330                      335  
 Asn Thr Cys Gln Cys Val Cys Lys Arg Thr Cys Pro Arg Asn Gln Pro  
                                  340                      345                      350  
 Leu Asn Pro Gly Lys Cys Ala Cys Glu Cys Thr Glu Ser Pro Gln Lys  
                                  355                      360                      365  
 Cys Leu Leu Lys Gly Lys Lys Phe His His Gln Thr Cys Ser Cys Tyr  
                                  370                      375                      380  
 Arg Arg Pro Cys Thr Asn Arg Gln Lys Ala Cys Glu Pro Gly Phe Ser  
 385                      390                      395                      400  
 Tyr Ser Glu Glu Val Cys Arg Cys Val Pro Ser Tyr Trp Lys Arg Pro  
                                  405                      410                      415  
 Gln Met Ser

<210> 30  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens

<400> 30  
 Met Arg Thr Leu Ala Cys Leu Leu Leu Leu Gly Cys Gly Tyr Leu Ala  
 1                      5                      10                      15  
 His Val Leu Ala Glu Glu Ala Glu Ile Pro Arg Glu Val Ile Glu Arg  
                                  20                      25                      30  
 Leu Ala Arg Ser Gln Ile His Ser Ile Arg Asp Leu Gln Arg Leu Leu  
                                  35                      40                      45  
 Glu Ile Asp Ser Val Gly Ser Glu Asp Ser Leu Asp Thr Ser Leu Arg  
                                  50                      55                      60  
 Ala His Gly Val His Ala Thr Lys His Val Pro Phe Lys Arg Pro Leu  
 65                      70                      75                      80  
 Pro Ile Arg Arg Lys Arg Ser Ile Glu Glu Ala Val Pro Ala Val Cys  
                                  85                      90                      95  
 Lys Thr Arg Thr Val Ile Tyr Glu Ile Pro Arg Ser Gln Val Asp Pro  
                                  100                      105                      110  
 Thr Ser Ala Asn Phe Leu Ile Trp Pro Pro Cys Val Glu Val Lys Arg  
                                  115                      120                      125  
 Cys Thr Gly Cys Cys Asn Thr Ser Ser Val Lys Cys Gln Pro Ser Arg  
                                  130                      135                      140  
 Val His His Arg Ser Val Lys Val Ala Lys Val Glu Tyr Val Arg Lys

145		150		155		160									
Lys	Pro	Lys	Leu	Lys	Glu	Val	Gln	Val	Arg	Leu	Glu	Glu	His	Leu	Glu
		165						170						175	
Cys	Ala	Cys	Ala	Thr	Thr	Ser	Leu	Asn	Pro	Asp	Tyr	Arg	Glu	Glu	Asp
		180						185						190	
Thr	Gly	Arg	Pro	Arg	Glu	Ser	Gly	Lys	Lys	Arg	Lys	Arg	Lys	Arg	Leu
		195					200					205			
Lys	Pro	Thr													
		210													

<210> 31  
 <211> 241  
 <212> PRT  
 <213> Homo sapiens

*Ala*  
*cont.*

<400> 31															
Met	Asn	Arg	Cys	Trp	Ala	Leu	Phe	Leu	Ser	Leu	Cys	Cys	Tyr	Leu	Arg
1			5					10					15		
Leu	Val	Ser	Ala	Glu	Gly	Asp	Pro	Ile	Pro	Glu	Glu	Leu	Tyr	Glu	Met
		20					25					30			
Leu	Ser	Asp	His	Ser	Ile	Arg	Ser	Phe	Asp	Asp	Leu	Gln	Arg	Leu	Leu
	35					40					45				
His	Gly	Asp	Pro	Gly	Glu	Glu	Asp	Gly	Ala	Glu	Leu	Asp	Leu	Asn	Met
	50				55					60					
Thr	Arg	Ser	His	Ser	Gly	Gly	Glu	Leu	Glu	Ser	Leu	Ala	Arg	Gly	Arg
65				70				75					80		
Arg	Ser	Leu	Gly	Ser	Leu	Thr	Ile	Ala	Glu	Pro	Ala	Met	Ile	Ala	Glu
		85					90					95			
Cys	Lys	Thr	Arg	Thr	Glu	Val	Phe	Glu	Ile	Ser	Arg	Arg	Leu	Ile	Asp
		100					105					110			
Arg	Thr	Asn	Ala	Asn	Phe	Leu	Val	Trp	Pro	Pro	Cys	Val	Glu	Val	Gln
	115					120					125				
Arg	Cys	Ser	Gly	Cys	Cys	Asn	Asn	Arg	Asn	Val	Gln	Cys	Arg	Pro	Thr
	130				135					140					
Gln	Val	Gln	Leu	Arg	Pro	Val	Gln	Val	Arg	Lys	Ile	Glu	Ile	Val	Arg
145			150					155					160		
Lys	Lys	Pro	Ile	Phe	Lys	Lys	Ala	Thr	Val	Thr	Leu	Glu	Asp	His	Leu
		165					170						175		
Ala	Cys	Lys	Cys	Glu	Thr	Val	Ala	Ala	Arg	Pro	Val	Thr	Arg	Ser	
		180					185					190			
Pro	Gly	Gly	Ser	Gln	Glu	Gln	Arg	Ala	Lys	Thr	Pro	Gln	Thr	Arg	Val
	195				200						205				
Thr	Ile	Arg	Thr	Val	Arg	Val	Arg	Arg	Pro	Pro	Lys	Gly	Lys	His	Arg
	210			215						220					
Lys	Phe	Lys	His	Thr	His	Asp	Lys	Thr	Ala	Leu	Lys	Glu	Thr	Leu	Gly
225				230					235					240	
Ala															

<210> 32  
 <211> 170



<212> PRT  
<213> Homo sapiens

<400> 32

Met Pro Val Met Arg Leu Phe Pro Cys Phe Leu Gln Leu Leu Ala Gly  
1 5 10 15  
Leu Ala Leu Pro Ala Val Pro Pro Gln Gln Trp Ala Leu Ser Ala Gly  
20 25 30  
Asn Gly Ser Ser Glu Val Glu Val Val Pro Phe Gln Phe Val Trp Gly  
35 40 45  
Arg Ser Tyr Cys Arg Ala Leu Glu Arg Leu Val Asp Val Val Ser Glu  
50 55 60  
Tyr Pro Ser Glu Val Glu His Met Phe Ser Pro Ser Cys Val Ser Leu  
65 70 75 80  
Leu Arg Cys Thr Gly Cys Cys Gly Asp Glu Asn Leu His Cys Val Pro  
85 90 95  
Val Glu Thr Ala Asn Val Thr Met Gln Leu Leu Lys Ile Arg Ser Gly  
100 105 110  
Asp Arg Pro Ser Tyr Val Glu Leu Thr Phe Ser Gln His Val Arg Cys  
115 120 125  
Glu Cys Arg Pro Leu Arg Glu Lys Met Lys Pro Glu Arg Arg Arg Pro  
130 135 140  
Lys Gly Arg Gly Lys Arg Arg Arg Glu Lys Gln Arg Pro Thr Asp Cys  
145 150 155 160  
His Leu Cys Gly Asp Ala Val Pro Arg Arg  
165 170

<210> 33  
<211> 232  
<212> PRT  
<213> Homo sapiens

<400> 33

Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu  
1 5 10 15  
Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly  
20 25 30  
Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln  
35 40 45  
Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu  
50 55 60  
Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu  
65 70 75 80  
Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro  
85 90 95  
Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His  
100 105 110  
Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys  
115 120 125  
Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Lys Lys Ser Val  
130 135 140

Arg	Gly	Lys	Gly	Lys	Gly	Gln	Lys	Arg	Lys	Arg	Lys	Lys	Ser	Arg	Tyr
145					150					155					160
Lys	Ser	Trp	Ser	Val	Tyr	Val	Gly	Ala	Arg	Cys	Cys	Leu	Met	Pro	Trp
				165					170					175	
Ser	Leu	Pro	Gly	Pro	His	Pro	Cys	Gly	Pro	Cys	Ser	Glu	Arg	Arg	Lys
			180					185					190		
His	Leu	Phe	Val	Gln	Asp	Pro	Gln	Thr	Cys	Lys	Cys	Ser	Cys	Lys	Asn
		195					200					205			
Thr	Asp	Ser	Arg	Cys	Lys	Ala	Arg	Gln	Leu	Glu	Leu	Asn	Glu	Arg	Thr
	210						215				220				
Cys	Arg	Cys	Asp	Lys	Pro	Arg	Arg								
225					230										

<210> 34  
 <211> 188  
 <212> PRT  
 <213> Homo sapiens

<400> 34

Met	Ser	Pro	Leu	Leu	Arg	Arg	Leu	Leu	Leu	Ala	Ala	Leu	Leu	Gln	Leu
1			5					10					15		
Ala	Pro	Ala	Gln	Ala	Pro	Val	Ser	Gln	Pro	Asp	Ala	Pro	Gly	His	Gln
		20						25					30		
Arg	Lys	Val	Val	Ser	Trp	Ile	Asp	Val	Tyr	Thr	Arg	Ala	Thr	Cys	Gln
	35					40					45				
Pro	Arg	Glu	Val	Val	Val	Pro	Leu	Thr	Val	Glu	Leu	Met	Gly	Thr	Val
	50				55					60					
Ala	Lys	Gln	Leu	Val	Pro	Ser	Cys	Val	Thr	Val	Gln	Arg	Cys	Gly	Gly
65				70					75					80	
Cys	Cys	Pro	Asp	Asp	Gly	Leu	Glu	Cys	Val	Pro	Thr	Gly	Gln	His	Gln
			85					90					95		
Val	Arg	Met	Gln	Ile	Leu	Met	Ile	Arg	Tyr	Pro	Ser	Ser	Gln	Leu	Gly
		100						105					110		
Glu	Met	Ser	Leu	Glu	Glu	His	Ser	Gln	Cys	Glu	Cys	Arg	Pro	Lys	Lys
	115					120						125			
Lys	Asp	Ser	Ala	Val	Lys	Pro	Asp	Ser	Pro	Arg	Pro	Leu	Cys	Pro	Arg
	130					135					140				
Cys	Thr	Gln	His	His	Gln	Arg	Pro	Asp	Pro	Arg	Thr	Cys	Arg	Cys	Arg
145					150					155				160	
Cys	Arg	Arg	Arg	Ser	Phe	Leu	Arg	Cys	Gln	Gly	Arg	Gly	Leu	Glu	Leu
			165					170					175		
Asn	Pro	Asp	Thr	Cys	Arg	Cys	Arg	Lys	Leu	Arg	Arg				
		180						185							